<u>II</u>B

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,584	07/07/2005	Guo-Hua Wang	AI 381NP	1999
23995 RABIN & Bero	7590 02/12/2007 lo. PC	EXAMINER		
1101 14TH ST	•	LAXTON, GARY L		
SUITE 500 WASHINGTO	N, DC 20005	ART UNIT	PAPER NUMBER	
	·		2838	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		02/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Applicat	ion No.	Applicant(s)			
		10/541,5	84	WANG, GUO-HUA			
		Examine	r	Art Unit			
	·	Gary L. L	axton	2838			
Period fo	The MAILING DATE of this commun r Reply	ication appears on th	e cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status		•					
1)	Responsive to communication(s) file	ed on	·				
-		2b)⊠ This action is	non-final.				
3)	Since this application is in condition	ication is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)🖂	Claim(s) 1-5 is/are pending in the a	pplication.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-5</u> is/are rejected.						
7)	Claim(s) is/are objected to.		,				
8)[Claim(s) are subject to restri	ction and/or election	requirement.				
Application Papers							
9)[The specification is objected to by the	e Examiner.	•				
10)⊠ The drawing(s) filed on <u>07 July 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected t	o by the Examiner. N	lote the attached Office	ce Action or form PTO-152.			
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 							
Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
	•	•					
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/7/05. 5) Notice of Informal Patent Application 6) Other:							

DETAILED ACTION

Page 2

Specification

1. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

2. Claims 1-5 are objected to because of the following informalities:

Claim 1 recites the limitation "the positive and negative sides" in line 4. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "the positive side inductor" in line 9. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "the negative side inductor" in line 10. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "the coupling point" in line 11. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "the capacitor" in line 12. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "the capacitor" in line 14. There is insufficient antecedent basis for this limitation in the claim.

Art Unit: 2838

Claim 3 recites the limitation "the capacitor" in line 4. There is insufficient antecedent basis for this limitation in the claim.

Claim 3 recites the limitation "the capacitor" in line 5. There is insufficient antecedent basis for this limitation in the claim.

Claim 4 recites the limitation "the output ends" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Lethellier (US 6,144,565).

Lethellier discloses a capacitor coupled power supply apparatus (figs. 4-8) characterized in that: inductors (e.g. L1, L4) are respectively inserted in series at the positive and negative sides of lines for guiding a direct current supplied from an alternating current power supply (i.e. rectified AC not shown) through a rectification circuit (e.g. D1), capacitors (e.g. C3, C4) are respectively inserted in series between the positive-side inductor and a load, and between the negative-side inductor and the load (Vout); and a switching element (e.g. Q1) is connected between the coupling point of the positive-side inductor with the capacitor connected in series

Art Unit: 2838

thereto, and the coupling point of the negative-side inductor and the capacitor connected in series thereto.

5. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Probst (US 4,635,175).

Probst discloses a capacitor coupled power supply apparatus (figs. 2 & 3) characterized in that: inductors (e.g. H1, H2) are respectively inserted in series at the positive and negative sides of lines for guiding a direct current supplied from an alternating current power supply (i.e. rectified AC not shown) through a rectification circuit (e.g. D1, D2), capacitors (e.g. C5, C6) are respectively inserted in series between the positive-side inductor and a load, and between the negative-side inductor and the load (Vout); and a switching element (e.g. T1, T3) is connected between the coupling point of the positive-side inductor with the capacitor connected in series thereto, and the coupling point of the negative-side inductor and the capacitor connected in series thereto.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 5,886,506 Ozawa disclose dual inductors in a boost switching power supply; US 5,583,421 Barbehenn et al. disclose dual capacitors in a boost switching power supply.

Application/Control Number: 10/541,584

Art Unit: 2838

Page 5

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary L. Laxton whose telephone number is (571) 272-2079. The examiner can normally be reached on Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl Easthom can be reached on (571) 272-1989. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Gary L. Laxton
Primary Examiner

Art Unit 2838